

Initial Development Work for the Cloud-Aerosol Multi-Angle Lidar (CAMAL)

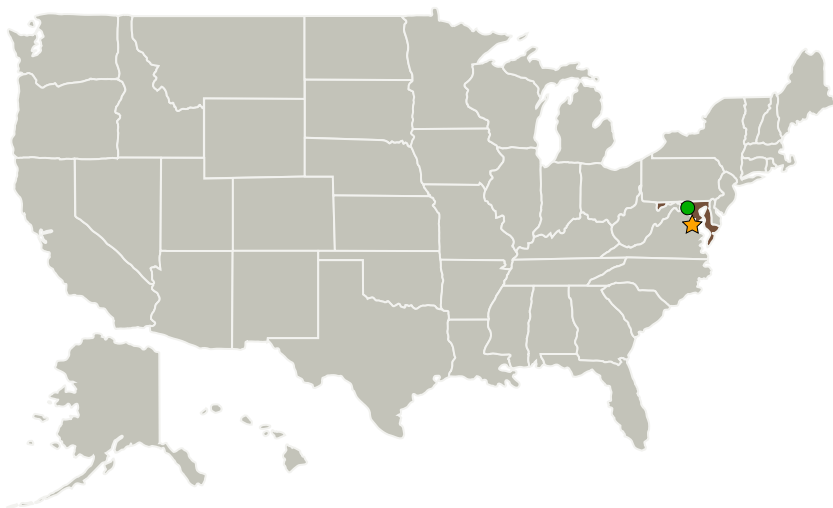
Completed Technology Project (2014 - 2014)



Project Introduction

Initiate development of a cost-effective off-nadir cloud-aerosol lidar instrument to enable data synergy with passive sensors (imagers, polarimeters) and models Leverage a cross-track scanning mirror transceiver from LiteSpar, Inc, an SBIR company Work closely with SBIR vendor to ensure deliverable is compatible with measurement needs and aircraft interfaces (especially control electronics) Procure long-lead items to support moving SBIR deliverable to airborne demonstration

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Goddard Space Flight Center(GSFC)	Supporting Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations

Maryland



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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

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Project Management

Program Director:

George J Komar

Principal Investigator:

Matthew J McGill

Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.1 Remote Sensing Instruments/Sensors
 - └ TX08.1.5 Lasers

Target Destination

Earth